

AMENDMENTS TO THE CLAIMS

1-12. (Canceled)

13. (Previously presented) Sunflower seeds comprising a sunflower oil having:
an oleic acid content of more than 5% and less than 65% by weight based upon the total
fatty acid content,

a linoleic acid content of more than 1% and less than 65% by weight based upon the total
fatty acid content,

a palmitic acid content of more than 20% and less than 40% by weight based upon the
total fatty acid content,

a stearic acid content of more than 3% and less than 15% based upon the total fatty acid
content,

wherein the palmitoleic acid content is less than 4% based upon the total fatty acid
content, and

the asclepic acid content is less than 4% based upon the total fatty acid content.

14. (Previously presented) Sunflower seeds of claim 13 wherein the palmitoleic acid
content is less than 3% based upon the total fatty acid content.

15. (Currently amended) Method for preparing sunflower seeds as claimed in
claim 13, comprising the steps of:

a) crossing ~~sunflower seeds~~ of the mutant sunflower line IG-1297M deposited on
20 January 1998 with ATCC under deposit accession number ATCC-209591 with the mutant
sunflower line CAS-3, deposited on 14 December 1994 with the ATCC under deposit accession
number ATCC-75968,

b) self-pollinating F1 progeny plants of step a) for at least two generations to
produce inbred plants,

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- c) selecting from the progeny of step b) plants with seeds containing an oil having a palmitic acid content of more than 20%, a palmitoleic acid content of less than 4% and an asclepic acid content of less than 3%,
- d) collecting progeny seeds from step c), and optionally
- e) repeating the cycle of culturing, selection and collection of seeds.

16-23. (Canceled)

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